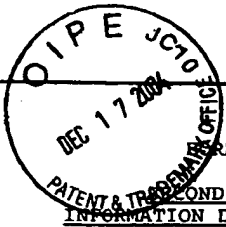


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PATENT & TRADEMARK OFFICE FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2060.0110001/EKS/HCC/M-M	APPLICATION NO. 09/633,364
	APPLICANT FIKES et al.	
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U.S. PATENT DOCUMENTS

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	AH	/	/	/	/	/	/
	AI	/	/	/	/	/	/
SR	AJ1	2002/0168374 A1	11/14/2002	Kubo et al.			03/20/1997
SR	AK1	2002/0177694 A1	11/28/2002	Sette et al.			02/03/1998

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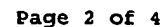
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SR	AN4	WO 96/03140 A1	02/08/1996	WIPO	/	/	Yes No
SR	AO4	WO 97/04802 A1	02/13/1997	WIPO	/	/	Yes No
	AP	/	/	/	/	/	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	31	Boon, T., "Tumor antigens recognized by cytolytic T lymphocytes: present perspectives for specific immunotherapy," <i>Int. J. Cancer</i> 54:177-180, Wiley-Liss, Inc. (May 1993)
	AS	31	Cotran, R.S., et al., "Neoplasia," in <i>Robbins Pathologic Basis of Disease</i> , 4 th ed., W.B. Saunders Staff, ed., W.B. Saunders Company, Philadelphia, PA, pp. 296-299 (1989)
	AT	31	Kawashima, I., et al., "The Multi-epitope Approach for Immunotherapy for Cancer: Identification of Several CTL Epitopes from Various Tumor-Associated Antigens Expressed on Solid Epithelial Tumors," <i>Hum. Immunol.</i> 59:1-14, Elsevier Science, Inc. (January 1998)

EXAMINER 	DATE CONSIDERED 3/17/05
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FORM PTO-1449

ATTY. DOCKET NO.
2060.0110001/EKS/HCC/M-M

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SR	AA2	2002/0098197 A1	04/25/2002	Sette et al.	—	—	05/30/1995
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FOREIGN PATENT DOCUMENTS

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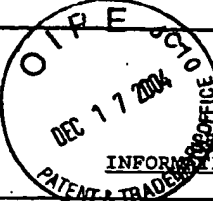
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	32	Knuth, A., et al., "Cellular and humoral immune responses against cancer: implications for cancer vaccines," Curr. Opin. Immunol. 3:659-664, Current Biology, Ltd. (1991)
SR	AS	32	Toes, R.E.M., et al., "Enhancement of Tumor Outgrowth Through CTL Tolerization After Peptide Vaccination Is Avoided by Peptide Presentation on Dendritic Cells," J. Immunol. 160:4449-4456, The American Association of Immunologists (May 1998)
SR	AT	32	Copy of co-pending U.S. application 08/205,713, inventor Grey, filed March 4, 1994 (NOT PUBLISHED).

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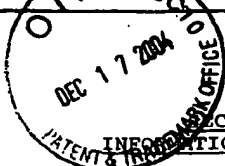
sh	AR	33	Copy of co-pending U.S. application 08/344,824, inventors Sette et al., filed November 23, 1994 (NOT PUBLISHED).
	AS	33	Copy of co-pending U.S. application 08/347,610, inventors Kubo et al., filed December 1, 1994 (NOT PUBLISHED).
↓	AT	33	Copy of co-pending U.S. application 09/017,524, inventors Kubo et al., filed February 3, 1998 (NOT PUBLISHED).

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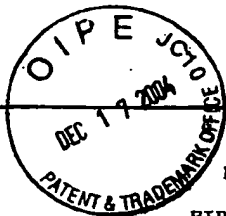
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
52	AR	34	Copy of co-pending U.S. application 10/168,507, inventors Fikes et al., filed December 20, 2000 (PUBLISHED AS WO 01/45728)
	AS		
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1642**U.S. PATENT DOCUMENTS**

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SZ	AG1	5,200,320	04/06/1993	Sette et al.			12/07/1987
	AH1	5,503,829	04/02/1996	Ladant et al.			11/07/1994
	AI1	6,034,214	03/07/2000	Boon et al.			12/13/1994
	AJ	/	/	/	/	/	/
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SZ	AL3	EP 0 044 710 A1	01/27/1982	Europe	/	/	Yes No
	AM3	EP 0 226 513 A1	06/24/1987	Europe	/	/	Yes X No
	AN3	WO 92/02543 A1	02/20/1992	WIPO	/	/	Yes No
	AO3	WO 92/12996 A2	08/06/1992	WIPO	/	/	Yes No
	AP3	WO 92/21033 A1	11/26/1992	WIPO	/	/	Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SZ	AR	13	Aichele, P., et al., "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," <i>J. Exp. Med.</i> 171:1815-1820, Rockefeller University Press (1990)
	AS	13	Alexander, J., et al., "Derivation of HLA-A11/K ^b Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," <i>J. Immunol.</i> 159:4753-4761, The American Association of Immunologists (November 1997)
	AT	13	Bergmann, C.C., et al., "Differential Effects of Flanking Residues on Presentation of Epitopes from Chimeric Peptides," <i>J. Virol.</i> 68:5306-5310, American Society for Microbiology (August 1994)

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SN	AL4	WO 93/03764 A1	03/04/1993	WIPO	/	/	Yes No
SN	AM4	WO 94/11738 A1	05/26/1994	WIPO	/	/	Yes X No
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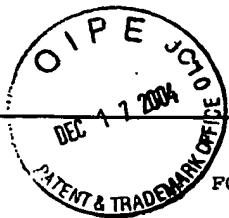
SN	AR	14	Bertoni, R., et al., "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," J. Clin. Invest. 100:503-513, The American Society for Clinical Investigation, Inc. (August 1997)
	AS	14	Bertoni, R., et al., "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," J. Immunol. 161:4447-4455, American Association of Immunologists (October 1998)
	AT	14	Bjorkman, P.J., et al., "Structure of the human class I histocompatibility antigen, HLA-A2," Nature 329:506-512, Macmillan Publishers, Ltd. (1987)

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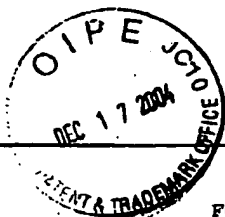
512	AR	15	Bjorkman, P.J., et al., "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," <i>Nature</i> 329:512-518, Macmillan Publishers, Ltd. (1987)
↓	AS	15	Buus, S., et al., "Autologous Peptides Constitutively Occupy the Antigen Binding Site on Ia," <i>Science</i> 242:1045-1047, American Association for the Advancement of Science (1988)
↓	AT	15	Corr, M., et al., "Endogenous Peptides of a Soluble Major Histocompatibility Complex Class I Molecule, H-2L ^d , Sequence Motif, Quantitative Binding, and Molecular Modeling of the Complex," <i>J. Exp. Med.</i> 176:1681-1692, Rockefeller University Press (December 1992)

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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

sh	AR	16	De Bruijn, M.L.H., et al., "Peptide loading of empty major histocompatibility complex molecules on RMA-S cells allows the induction of primary cytotoxic T lymphocyte responses," Eur. J. Immunol. 21:2963-2970, VCH Verlagsgesellschaft mbH (1991)
	AS	16	Del Val, M., et al., "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," Cell 66:1145-1153, Cell Press (1991)
4	AT	16	Deres, K., et al., "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," Nature 342:561-564, Macmillan Publishers, Ltd. (1989)

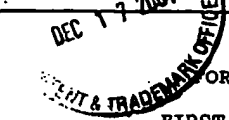
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**FIRST SUPPLEMENTAL
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	DiBrino, M., et al., "HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs," J. Immunol. 151:5930-5935, The Association of Immunologists (December 1993)
	AS	17	Ding, Y.-H., et al., "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," Immunity 8:403-11, Cell Press (April 1998)
	AT	17	Eisenlohr, L.C., et al., "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," J. Exp. Med. 175:481-487, The Rockefeller University Press (February 1992)

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sn	AR	18	Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," <i>Cancer Res.</i> 49:1621-1639, American Association for Cancer Research (1989)
	AS	18	Geysen, H.M., et al., "Cognitive Features of Continuous Antigenic Determinants," <i>J. Mol. Recognit.</i> 1:32-41, Heyden & Sons, Ltd. (1988)
↓	AT	18	Guo, H.-C., et al., "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," <i>Nature</i> 360:364-366, Macmillan Publishers, Ltd. (November 1992)

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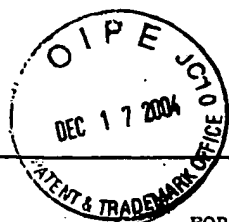
SR	AR	19	Hill, A., et al., "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," Eur. J. Immunol. 25:18-24, VCH Verlagsgesellschaft mbH (January 1995)
	AS	19	Ishioka, G.Y., et al., "Utilization of MHC Class I Transgenic Mice for Development of Minigene DNA Vaccines Encoding Multiple HLA-Restricted CTL Epitopes," J. Immunol. 162:3915-3925, The American Association of Immunologists (April 1999)
	AT	19	Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K ^b -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," Eur. J. Immunol. 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992)

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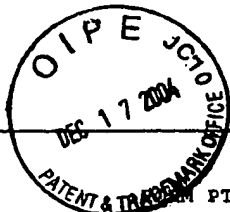
52	AR	20	Kannagi, M., et al., "Target Epitope in the Tax Protein of Human T-Cell Leukemia Virus Type I Recognized by Class I Major Histocompatibility Complex-Restricted Cells," J. Virol. 66:2928-2933, American Society for Microbiology (May 1992)
1	AS	20	Kast, W.M., et al., "Protection against lethal Sendai virus infection by in vivo priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," Proc. Natl. Acad. Sci. USA 88:2283-2287, National Academy Press (1991)
4	AT	20	Kast, W.M., et al., "Strict peptide length is not required for the induction of cytotoxic T lymphocyte-mediated antiviral protection by peptide vaccination," Eur. J. Immunol. 23:1189-1192, VCH Verlagsgesellschaft mbH (May 1993)

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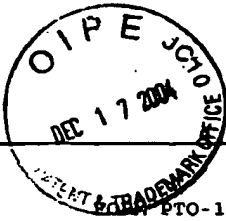
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SQ	AR	21	Lipford, G.B., et al., "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K ^b Binding Motif," <i>J. Immunol.</i> 150:1212-1222, The American Association of Immunologists (February 1993)
I	AS	21	Maryanski, J.L., et al., "Synthetic peptides as antigens and competitors in recognition by H-2-restricted cytolytic T cells specific for HLA," <i>J. Exp. Med.</i> 167:1391-1405, Rockefeller University Press (1988)
u	AT	21	Maryanski, J.L., et al., "Competitor Analogs for Defined T Cell Antigens: Peptides Incorporating a Putative Binding Motif and Polyproline or Polyglycine Spacers," <i>Cell</i> 60:63-72, Cell Press (1990)

EXAMINER 1	DATE CONSIDERED 3/17/08
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT PTO-1449	ATTY. DOCKET NO. 2060.0110001/EKS/HCC/M-M	APPLICATION NO. 09/633,364
	APPLICANT FIKES et al.	
	FILING DATE August 7, 2000	GROUP 1642

U.S. PATENT DOCUMENTS							
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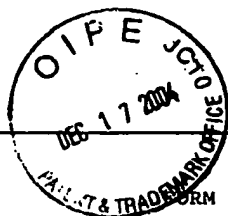
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	22	Niedermann, G., et al., "The proteolytic fragments generated by vertebrate proteasomes: Structural relationships to major histocompatibility complex class I binding peptides," <i>Proc. Natl. Acad. Sci. USA</i> 93:8572-8577, National Academy Press (August 1996)
	AS	22	Ochoa-Garay, J., et al., "The ability of peptides to induce cytotoxic T cells in vitro does not strongly correlate with their affinity for the H-2L ^d molecule: implications for vaccine design and immunotherapy," <i>Mol. Immunol.</i> 34:273-281, Elsevier Science, Ltd. (February 1997)
	AT	22	Pamer, E.G., et al., "Precise prediction of a dominant class I MHC-restricted epitope of <i>Listeria monocytogenes</i> ," <i>Nature</i> 353:852-855, Macmillan Publishers, Ltd. (1991)

EXAMINER A ✓	DATE CONSIDERED 3/17/05
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FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2060.0110001/EKS/HCC/M-M	APPLICATION NO. 09/633,364
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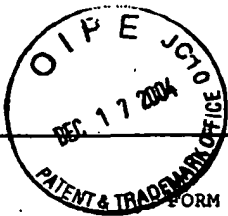
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

gn	AR	23	Parham, P., et al., "The Origins of HLA-A,B,C Polymorphism," <i>Immunol. Rev.</i> 143:141-180, Munksgaard (February 1995)
	AS	23	Reddehase, M.J., et al., "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature</i> 337:651-653, Macmillan Publishers, Ltd. (1989)
7	AT	23	Romero, P., et al., "H-2K ^d -restricted Antigenic Peptides Share a Simple Binding Motif," <i>J. Exp. Med.</i> 174:603-612, Rockefeller University Press (1991)

EXAMINER 	DATE CONSIDERED 3/17/05
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FORM PTO-1449

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2060.0110001/EKS/HCC/M-MAPPLICATION NO.
09/633,364APPLICANT
FIKES et al.FILING DATE
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1642**U.S. PATENT DOCUMENTS**

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	24	Röttschke, O., et al., "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," <i>Nature</i> 348:252-254, Macmillan Publishers, Ltd. (1990)
↓	AS	24	Röttschke, O., et al., "Characterization of Naturally Occurring Minor Histocompatibility Peptides Including H-4 and H-Y," <i>Science</i> 249:283-287, American Association for the Advancement of Science (1990)
↓	AT	24	Röttschke, O., and Palk, K., "Naturally-occurring peptide antigens derived from the MHC class-I-restricted processing pathway," <i>Immunol. Today</i> 12:447-455, Elsevier Science Publishers, Ltd. (1991)

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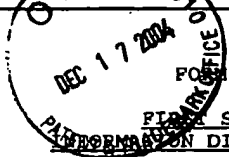
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR ↓	AR	25	Rotzschke, O., et al., "Peptide motifs of closely related HLA class I molecules encompass substantial differences," <i>Eur. J. Immunol.</i> 22:2453-2456, VCH Verlagsgesellschaft mbH (September 1992)
	AS	25	Röttschke, O., and Falk, K., "Origin, structure and motifs of naturally processed MHC class II ligands," <i>Curr. Opin. Immunol.</i> 6:45-51, Current Biology, Ltd. (February 1994)
	AT	25	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A., ed., University Park Press, Baltimore, MD, pp.1-7 (1976)

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 PTO-1449 FIGURE SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2060.0110001/EKS/HCC/M-M	APPLICATION NO. 09/633,364
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR ↓	AR	26	Schulz, M., et al., "Major histocompatibility complex binding and T cell recognition of a viral nonapeptide containing a minimal tetrapeptide," Eur. J. Immunol. 21:1181-1185, VCH Verlagsgesellschaft mbH (1991)
	AS	26	Sette, A., et al., "Prediction of major histocompatibility complex binding regions of protein antigens by sequence pattern analysis," Proc. Natl. Acad. Sci. USA 86:3296-3300, National Academy Press (1989)
	AT	26	Sette, A., et al., "The Relationship Between Class I Binding Affinity and Immunogenicity of Potential Cytotoxic T Cell Epitopes," J. Immunol. 153:5586-5592, The American Association of Immunologists (December 1994)

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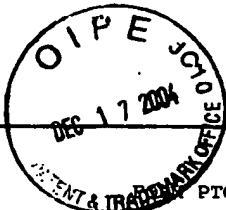
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

52	AR	27	Shastri, N., et al., "Presentation of Endogenous Peptide/MHC Class I Complexes Is Profoundly Influenced by Specific C-Terminal Flanking Residues," <i>J. Immunol.</i> 155: 4339-4346, The American Association of Immunologists (November 1995)
↓	AS	27	Sherman, L.A., et al., "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," <i>J. Exp. Med.</i> 175:1221-1226, The Rockefeller University Press (May 1992)
↓	AT	27	Sidney, J., et al., "Several HLA Alleles Share Overlapping Peptide Specificities," <i>J. Immunol.</i> 154:247-259, The American Association of Immunologists (January 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SR	AR	28	Threlkeld, S.C., et al., "Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A3-like Superfamily. Implications for Vaccine Development," <i>J. Immunol.</i> 159:1648-1657, The American Association of Immunologists (August 1997)
	AS	28	Wentworth, P.A., et al., "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," <i>Eur. J. Immunol.</i> 26:97-101, VCH Verlagsgesellschaft mbH (January 1996)
	AT	28	Whitton, J.L., et al., "Molecular Analyses of a Five-Amino-Acid Cytotoxic T-Lymphocyte (CTL) Epitope: an Immunodominant Region Which Induces Nonreciprocal CTL Cross-Reactivity," <i>J. Virol.</i> 63:4303-4310, American Society for Microbiology (1989)

EXAMINER 	DATE CONSIDERED 3/17/08
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
52	AR	29	Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," Adv. Immunol. 52:1-123, Academic Press (July 1992)
↓	AS	29	York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," Annu. Rev. Immunol. 14:369-396, Annual Reviews, Inc. (April 1996)
↓	AT	29	Parker, K.C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," J. Immunol. 152:163-175, The American Association of Immunologists (January 1994)

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	AN						Yes No
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SR	AR	30	Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513.
	AS	30	Dialog File 351, Accession No. 9263567, Derwent WPI English language abstract for WO 92/21033.
	AT	30	Dialog File 351, Accession No. 9888606, Derwent WPI English language abstract for WO 94/11738.

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